

Cypress™

Cypress Tech Talk

June 15, 2021



MITRE

The Office of the National Coordinator for
Health Information Technology



CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES

Agenda

- Software Updates
 - Cypress 6.2.0 Annual Update
 - Community-Suggested Features and Bug Fixes
- Recent Issue
 - Cypress Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

*See the Glossary at the back for definitions of terms

Software Updates

Cypress 6.2.0 (Annual Update)

■ Cypress 6.2.0

- For the 2022 Reporting and Performance Period
- Release will be 2021 and 2022 compatible
- 2021 bundle (for the 2022 reporting period) can be loaded alongside the the 2020 bundle (for the 2021 reporting period)

■ Release Schedule

- Preview available as a VM (Virtual Machine) as of May 20, 2021
- Final Release will be available in all release formats June 24, 2021

Community Suggested Features and Bug Fixes

- User Interface Updates
 - Ability to view calculation results for subpopulations when filtering Vendor and Master Patient Lists ([CYPRESS-2218](#))
 - Ability to view Measure Observation calculations in patient lists, and individual patient calculations ([CYPRESS-2236](#))
 - Removed caching of Vendor Patients which hid updates to uploaded patients ([CYPRESS-2212](#))
 - Validation progress displayed for long running tests
- Validation Updates
 - CVU+ Reporting Period validation updated for CMS529 to reflect CMS Guidance ([CYPRESS-2230](#))
- API Updates
 - Hosting of API Documentation on Cypress Web Server
 - API method to view Cypress Version ([CYPRESS-2068](#))
 - API methods to run CMS/HL7 Schematron validation ([CYPRESS-2041](#), [CYPRESS-2133](#))
- VM Updates
 - VM repackaged without compressed disks to support VMWare users on Windows OS ([CYPRESS-2207](#))

Software Updates

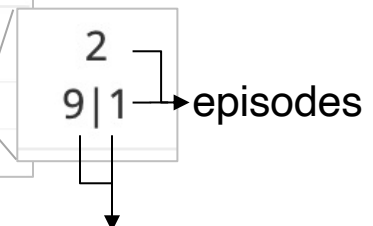
View Measure Observations

- Ability to view Measure Observation calculations in patient lists, and individual patient calculations ([CYPRESS-2236](#))
 - Observed values can be seen in the patient details view. Multiple values from different measurements may be observed in a single episode. The view may also show values from different episodes for the same patient.

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS871v1 - PopulationSet 1	2	2	1		
Episode 1 Observations:		9	1		
Episode 2 Observations:		2			
<button>View Logic Highlighting</button>					

- Similar observed values can also be seen in the patient list summary view.



CMS871v0 - PopulationSet 1 Patients							
Patient Name	Template Name	DOB	Gender	IPOP	DENOM	NUMER	OBSERV
Chester Simpson	Z3 N Eye	February 12, 1971	Male				
Debra Collins	1 N performed GP Adult	March 17, 1978	Female				
Jessica Taylor	4 Diabetes Adult	March 9, 1967	Female	2	2	1	
Joann Lowe	7 Diabetes Adult	March 9, 1967	Female	1	1		9



Software Updates

Validation API

- **API methods to run CMS/HL7 Schematron validation ([CYPRESS-2041](#), [CYPRESS-2133](#))**
 - Adds validation endpoint that can be used to post QRDA artifacts for only program-based schematron validation as was available in the previous CVU tool
 - Provides validation information as a QRDA validation json response

/qrda_validation	
QRDA Validations on the system	
/qrda_validation	GET 
/qrda_validation/{year}/{qrda_type}/{implementation_guide}	POST 

URI Parameters

- **Performance Period:** *required (string)*
- **QRDA Types (I or III):** *required (string)*
- **Implementation Guide (CMS or HL7):** *required (string)*

Form Parameters

- **file:** *required (file)*
Artifact to be tested

Recent Issue

Cypress Known Issues Dashboard

- <https://oncprojecttracking.healthit.gov/support/secure/Dashboard.jspa?selectPageId=18000>
- The dashboard collects all labeled known issues in one place, sorted by Cypress version
- Easily navigate to the dashboard from the Cypress summary page

Cypress Known Issues

Filter Results: Cypress Known Bugs 6.0.0

Summary	2021 Performance Period EP/EC eCQMs	2021 Reporting Period EH/CAH eCQMs	Solution
CMS72v9-QRDA1 issue			
CMS134v9 Denominator Exclusion count	CMS134v9/NQFna		
CMS68v10 procedure performed incomplete issue			
CMS-190v9 C1 Sample testing returning Internal Error with code nullFlavor in Facility Location			
CMS-108/190 returning warning when submitting Z29 VTE for C1/C3 testing			
1-5 of 5			

Cypress Versions

Version	Dates	Measures Supported
V6.1.2	February 11, 2021	Updates to support new schematron and MIPS APM Entity for the 2021 reporting/performance period eQMs.
V6.x Preview	May 20, 2021	Support for the 2022 reporting/performance period eQMs.
<i>V6.2.0</i>	<i>June 24, 2021</i>	Full support for the 2022 reporting/performance period eQMs.

Bundle Version	Dates	Features
2020.0.5	February 19, 2021	Cypress v6 only Calculations for Master Patient List updated to reflect updated guidance for Relevant dateTime/Relevant Period and addresses issues with time zone offsets.
2021.0.1	May 20, 2021	Cypress v6 only Measures and patients released in 2021 for the 2022 reporting year.

* Cypress v5 and the 2019 bundle are outdated, as the 2020 reporting has ended.

The Cypress v5 server decommissioned on May 31, 2021.

OPEN DISCUSSION

Next Cypress Tech Talk

- Tuesday, June 29, 2021 at 1pm ET
- To join online, visit: <https://global.gotomeeting.com/join/529898157>
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
 - <https://www.healthit.gov/cypress/techtalks.html>

Notes

- **Completed Webinars will be posted on the Cypress website on the Tech Talks tab**
 - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
 - project-cypress-talk@googlegroups.com
- **Report bugs and issues to the Cypress JIRA at**
 - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>

Glossary

- **API – Application Programming Interface**
- **CQL – Clinical Quality Language**
- **CVU – Cypress Validation Utility**
- **CVU+ – Cypress Validation Utility Plus Calculation Check**
- **EC – Eligible Clinician**
- **eCQM – Electronic Clinical Quality Measure**
- **EH – Eligible Hospital**
- **EP – Eligible Professional**
- **HL7 – Health Level Seven International**
- **IG – Implementation Guide**
- **QPP – Quality Payment Program**
- **QRDA – Quality Reporting Document Architecture**
- **UMLS – Unified Medical Language System**